

^{107}Mo $Z = 42$ $N = 65$ adopted link ENSDF link

Based on ENSDF from Oct 2022, and mass evaluation from 2020

BE = 903.317 (0.009) MeV

Qbeta- = 6.205 (0.013) MeV

	Energy T	J+	J-	J-other	T1/2
107MO	1			0.000 (5/2+)	1 3.5 S 5
107MO	2			0.065 (1/2+)	2 420 NS 30
107MO	3			0.066 (3/2+)	3
107MO	4			0.152 (7/2+)	4
107MO	5			0.165 (5/2+)	5
107MO	6			0.320 (7/2+)	6
107MO	7			0.341 (9/2+)	7
107MO	8			0.348 (7/2-)	8
107MO	9			0.458 (9/2-)	9
107MO	10			0.492 (9/2+)	10

107MO	11			0.567 (11/2+)	11
107MO	12			0.582 (11/2-)	12
107MO	13			0.730 (11/2+)	13
107MO	14			0.820 (13/2+)	14
107MO	15			0.838 (13/2-)	15
107MO	16			0.970 (13/2+)	16
107MO	17			0.988 (15/2-)	17
107MO	18			1.118 (15/2+)	18
107MO	19			1.286 (15/2+)	19
107MO	20			1.393 (17/2-)	20

107MO	21			1.423 (17/2+)	21
107MO	22			1.545 (19/2-)	22
107MO	23			1.590 (17/2+)	23
107MO	24			1.797 (19/2+)	24
107MO	25			1.974 (19/2+)	25
107MO	26			2.102 (21/2-)	26
107MO	27			2.143 (21/2+)	27
107MO	28			2.244 (23/2-)	28
107MO	29			2.341 (21/2+)	29
107MO	30			2.587 (23/2+)	30

107MO	31			2.596 (27/2-)	31
107MO	32			2.780 (25/2-)	32
107MO	33			2.945 (25/2+)	33
107MO	34			3.073 (27/2-)	34
107MO	35			3.216 (25/2+)	35
107MO	36			3.504 (31/2-)	36
107MO	37			3.690 (29/2-)	37

107M0	38				4.016	(31/2-)	38
107M0	39				4.198	(29/2+)	39
S-n	=	4.488	(0.013)	-----			
107M0	40				4.510	(35/2-)	40
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107M0	41				4.685	(33/2-)	41
107M0	42				5.057	(35/2-)	42

S-p = 13.631 (0.009)-----
S-n = 4.488 (0.013)-----
S-2p = 25.665 (0.015)-----
S-2n = 11.357 (0.013)-----
S-alpha= 7.161 (0.013)-----

S+p = -10.667 (0.013)
S+n = -6.276 (0.013)
S+2p = -22.771 (0.013)
S+2n = -10.257 (0.014)
S+alpha = -6.665 (0.013)

gap p = 2.964 (0.016)
gap n = -1.787 (0.018)
gap 2p = 2.893 (0.020)
gap 2n = 1.100 (0.019)
gap alpha = 0.496 (0.019)